

24 August 1965

Gentlemen:

Subject: Contract [REDACTED]

We wish to present our proposal, P-5442, for the addition of motor-driven film re-wind units to the three (3) Advanced Light Tables being designed and developed under the subject contract. This addition will provide a motor-driven unit assembly to each of the three (3) Light Table film transport mechanisms for the purpose of automatically re-winding film. This feature will free the operator to perform other useful tasks during the re-wind period. Each drive unit will consist of a special reversible A.C. motor mounted on a base plate and connected through a magnetic clutch to the input shaft of the transmission. The motor will be operated from two switches located on the operator's console. The motors will be specially built to fit the existing space in the three (3) Light Tables without increasing the overall size of any of the units. A weight increase of approximately 5 lbs. will be experienced in each table.

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We hope that you will accept this important and useful addition to the three (3) Light Tables at a price of [REDACTED]. Should you have further questions regarding this proposal, please contact [REDACTED] at Area Code 814, 238-4311. We will be pleased to answer any questions which you may have.

Very truly yours,

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[REDACTED]
Contract Administration

JEH:cs

DECLASS REVIEW BY NIMA / DoD

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ADVANCED FILM VIEWING LIGHT TABLE

A PROPOSAL FOR A MOTORIZED FILM REWIND

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██████████ wishes to submit this proposal P-5442 for the addition of motor rewind units to the three advanced light tables to allow the operator to rapidly rewind large reels of film. We propose to add a fixed speed gearhead motor of the reverse direction type to the input shaft of the light table transmissions to provide powered rewind on each film transport system. Film would normally be transported by a hand crank for precisely positioning the film. The motor will be contained within the film transport mechanism housing of the present tables. No change in the overall size of the three units would be required. The motor will be disconnected from the input shaft by a clutch to insure the torque is minimum when the film is being transported by the hand crank.

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The motor will be a ██████████ gearhead motor measuring 4-1/4" long x 2" diameter and delivering 250 oz-in. of torque at start and 175 oz-in. of torque at the 75 RPM running speed. To electrically rewind film, the two-speed transmission will be placed in slew, providing a gear ratio of 1.72:1 on the output shaft of the transmission. The motor, turning at 75 RPM, will rotate the spools at 130 RPM. The rewind motor will allow film to be wound in the same direction, opposite direction, two rolls simultaneously, or any one of the two rolls separately. Motor control will be from two switches located on the light table control panels. When any one switch is closed, the magnetic clutch will be energized, power applied to the motor, thus driving film.

The motor drive unit will consist of a special high speed gearhead motor and magnetic clutch mounted on a rigid base plate. The unit as shown in Figure 1 of this proposal will fit the space available in the three light tables without increasing their size. The unit will be constructed to operate for a minimum life of 250×10^6 cycles.

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